











BOSTON.

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ANNUAL REPORT

OF THE

INSPECTOR OF BUILDINGS,

For the year 1880.

DEPARTMENT FOR THE SURVEY AND INSPECTION OF BUILDINGS.

Office of the Inspector of Buildings, City Hall, January 1, 1881.

To the Honorable the City Council of the City of Boston: —

Gentlemen, — In compliance with the provisions of Section 7 of Chapter 280 of the Laws of 1871, I have the honor to submit for your consideration a detailed report of the operations of this department for the year ending December 31, 1880.

Very respectfully I am your obedient servant,

JOHN S. DAMRELL,

Inspector of Buildings.

Under the provisions of the statutes relating to buildings in the City of Boston, and under the provisions of the city ordinances relating to buildings, the department has supervision over the following matters:—

The erection of brick, stone, and iron buildings, under stat-

ute provisions, throughout the entire city limits.

The erection of wooden or frame buildings of limited dimensions and range, outside of the building limits, under the provisions of the city ordinance.

Additions, alterations, and repairs upon all classes of buildings, with especial reference to their compliance with

the present requirements of the building law.

The inspection of unsafe buildings and structures, with full power to require the securing or removal of the same, and in cases of immediate danger, where the security of the public is imperilled in life and limb, authority to enter upon, secure, or take down the same, as the exigences of the public safety, in the opinion of the Inspector, may require.

The examination of buildings damaged by fire or accident, with authority to enter upon the premises and investigate

the origin of fires.

The inspection of buildings liable to take fire from unsafe

The supervision and the protection of the building limits; the district in which the erection of independent wooden buildings is prohibited by statute law, with a limitation as to wharves.

Special authority invested in the Inspector of Buildings to issue permits for wooden and frame sheds, for special purposes, at his discretion, upon wharves situated within

the building limits of the city.

The examination for the approval of plans of proposed tenement-houses, public and family hotels, with reference to their compliance with special statute provisions, regulating area for light and ventilation, material of construction, water-closets, drainage, cesspools, height of habitable rooms, window openings, hall-ways, construction of stairways, fire-escapes, and the height of the building as regulated by the width of the street upon which they are proposed to be erected.

The enforcement of statutory provisions requiring fireescapes upon certain buildings in which operatives are employed, in factories, mills, or manufactories, tene-

ment-houses, and hotels, etc.

Authority invested in the Inspector of Buildings, under the act relating to means of egress from buildings occupied for public purposes, to regulate the entrances, doorways, passage-ways, their width, construction, and number, and obstructions that may be placed therein, the

arrangement of the seatings, and the use of combustible

materials, draperies, scenery, properties, etc.

The inspection of all hoist-way and elevator openings in buildings, with reference to their construction in conformity with the requirements of statute law and their use.

Compliance with the requisitions of the Board of Health.

The setting of steam-engines and boilers.

The building of furnaces for melting iron, glass, or other metals.

The building of ovens, kilns, etc.

The setting of heating apparatus in all classes of buildings.

The examination of the grade of cellar bottoms of buildings built upon filled land; reporting violations of the same to the Board of Aldermen.

The storage of combustible material in buildings occupied in whole or in part as dwellings, situated within the building limits of the city.

Buildings authorized by the Board of Aldermen to be used for stables are licensed to be occupied for this purpose, under the direction of the Inspector of Buildings.

The examination of buildings, with reference to their being provided with ample and sufficient means of egress, and their compliance with statute requirements, upon petition for license to occupy the same as a place of public amusement.

Examination of private signs located in the public highways, upon a petition to the Board of Aldermen to maintain the same, if secured satisfactory to the Inspector of Buildings.

Authority to apply to the Supreme Judicial Court for an injunction restraining the construction of windows, steps, and porches, projecting into or over any public highway.

It is with pleasure and satisfaction that the department is enabled to note the increased confidence and business energy, and a healthy return to investments in real estate. This has been most marked during the past year. The erection of large and commodious warehouses in all sections of our city, as well as the extensive alterations that have been going on to make room for increased business operations, together with the erection of a large number of palatial residences have been, in a point of construction, of the most satisfactory character:

The department the past year has been one of constant activity, and, owing to the methods employed for the trans-

action of its work, the office has been used largely as a consultation bureau by our capitalists, architects, and master builders, in order that the law should be fully met. This has been very gratifying, while, by the methods adopted, the full maximum of work has been accomplished, yet the violations of the law reported have decreased fully 50 per cent.

Examinations of buildings, structures, etc., have to be made in all cases previous to issuing requisitions, permits, or notices; a diagram, and full description recorded of same; then examinations during their construction or alteration; a third examination, at its completion, as the final report, with the costs and facts in the case.

The department has given much care and attention to so much of the Mayor's address as related to an alteration and revision of the laws relating to the survey and inspection of buildings. Several meetings have been held on this matter, at which the committee on this department, together with many of our able architects and master-builders, were present, and considered the different proposed amendments submitted, and were unanimous in recommending the same to the Legislature (with a few exceptions) for approval.

The following shows the operations of the department in detail, and a comparative statement from its organization

up to date:—

THE OPERATIONS OF THE DEPARTMENT.

The number of brick, stone, and iron build-	
ings for which permits have been issued	
during the year	309
The number of wooden buildings for which	
permits have been issued during the year .	494
The number of sheds situated upon wharves	
within the building limits of the city for	
which permits have been issued	9
The number of buildings for which permits	
have been issued to have additions built to	
them, or to have alterations and repairs	
made upon them	2,294
The number of steam-boilers, engines, etc.,	
for which permits have been issued to set	203
The number of ovens, ranges, etc., for which	
permits have been issued to build	34
The number of kilns, kettles, etc., for which	
permits have been issued to build	40
The number of furnaces, etc., for which per-	
mits have been issued to build	82

The number of brick buildings completed dur-

The number of wooden and frame buildings

The number of buildings upon which additions, alterations, and repairs have been completed

The number of steam-boilers, engines, etc., set, and furnaces, ovens, ranges, etc., built,

The number of examinations that have been

Estimated cost of completed brick buildings.

Estimated cost of completed wooden and

Estimated cost of completed additions, alter-

The estimated cost of setting steam-boilers, engines, etc., building furnaces, ovens,

The number of heating apparatus set

The number of notices issued

ing year .

completed

made

during the year

frame buildings.

ranges, etc.

ations, and repairs

9

159

273

2,198

310

472

861

17,251

\$1,490,100

\$1,327,230

\$202,188

\$474,752

tus
ings, walls, etc
ingo, itazzo, cco.
TILL 1 1 1 1 Comments at a strong and arrest are and a
The estimated cost of protecting elevator and
hoist-way openings
The estimated cost of securing dangerous
chimneys
The estimated cost of providing fire-escapes
and additional means of egress \$4,182
The estimated amount of damage to buildings
by fire is

PERMITS ISSUED FOR BRICK, STONE, AND IRON BUILDINGS.

Banking institution						•		1
Bank, mercantile, a	nd o	ffice				•		1
Boiler and engine-h								1
Boiler and dry-hous				•				1
Boiler-houses								2
Car-house .					•	•		1
Carpet storehouse						•		. 1
Carriage repository	•							1
Churches .					•			3
Dwellings .					•			154
Dwellings and store	es	•						15
Dwelling and stable		•					•	1
Dry-houses .	•							2
Family hotels					•		•	2
Ice-house .	•			•				1
Kiln-house .	•							1
Laundry .								1
Lime-kiln .	•							1
Manufacturing								10
Mechanical .	•							$\overline{12}$
Mercantile .					Ĭ			33
Mercantile and stor	age							1
Offices	450							2
Public buildings	•				•			2
Railway stations								2
Scale-house and off	ice							1
School-house and v		room						$\overline{1}$
Stables								13
Storage .		•						4
Stores and offices	·							2
Stores								6
Stores and storage								1
Storage of wagons	and	naint_	shop		•			$\overline{1}$
Tenement-houses		Parit	onop					18
Tenement-houses a		ores						8
Tenement-house ar	id lac	rer-be	er bot	tling			r	1
Tank-house .								1
Lanix nouse					Ť		į	
Tota]							309

Exhibit "A" will give the statement in tabular form.

EXHIBIT A.

Showing the whole number of Brick Buildings in each Ward for which Permits have been issued.

PIREPOSE OF BILLDING											×	WARD	B											
	H	€ ₹	e9	4	ت ق	<u></u>	90	<u> </u>	10	H	13	13	14	15	16	21	90	10	30	212	. 63 . 63 . 63	3.4	65	Total
Dwellings	:	-	·		·	:	:	:	:	97	:	:	000	1:	-				:	6	es	88		154
Dwellings and Stores	:	:	•	·	•	7 1	•	<u>:</u>	:	:	:	:	61	:	61	:	:		-	- <u>:</u>	•			15
Family Hotels	:	:	•	•	•	•	<u>:</u>	<u>:</u>	:		:	:	:	:	:	:	-	<u>:</u>	•	<u>·</u>	•	•	<u>:</u>	
Tenement Houses	:	:	•	•	•		<u>:</u>	:	:	4	7	:	:	:	6	н	:	<u>·</u>	•	•	61	•	<u>:</u>	18
Tenement Houses and Stores	:	<u>:</u>	•	•	•	· ·	:		:	:		Н	•	:	က	:	•	:	•	•	•	•	:	
Mercantile	:	:	•	•			:	<u>:</u>	14	:	17	•	:	:	:	:	:	:	•	•	•	•	:	
Manufacturing	:	<u>:</u>	•	- <u>·</u>	•	_ - -	:	_:	:	:	:	:	:	H	Н	:	:	61	-	<u>.</u>	•		1 1	10
Mechanical	:	:	:	-	•	:	:	:	<u>:</u>	:	:	:			:	11	:	:	•	•	•	•	:	12
Churches	:	:	•	•	-:	<u>:</u>	:		<u>:</u>	7	_:	:	:		Н	:	:	:	<u>·</u>	:	•	•	:	က
Public Buildings	:	•	:	•	•	<u>:</u>	:	:		:	:	Η			:	:	:	:	•	•	•		:	63
Railway Stations	:	:	:	•	•	•	<u>:</u>	:	:	:	7				:	•	:	•	•	:	•	•		
Stables	:	:	•	•		•	<u>:</u>	61	:	73	:	:	П	:	:	:	-	г	<u> </u>	•	•	•		13
Storage	:	:	:	•	•		<u>:</u>	:	-	:	:	:	•	:	•	H	:		-	•	•	•	•	4
Stores and Offices	•	:	•	. •	•	•	:	<u>:</u>	61	:	:		•	:	:	:	:	•	•	•	<u>:</u>	•	<u>:</u>	C1
Miscellaneous	:	63	<u> </u>	-		1		:	:		61	:	61	:	:	61	H	က		•		က	1 2	31
Totals	:	က		01	2 15	1 20	-	60	=	100	22	6	13	-	=	15	000	1	19	<u> </u> 2	 c	5 40	1 6	308

EXHIBIT B.

Showing the Styles of Roofs and the Number of Stories of the foregoing Buildings.

		No	of 8	яот	TES		g	TVI.	OF	Roo	F.	zź.
Ward.		110,	Or I	JIOR				LILI	. Or	1000		OF DING
	1	2	3	4	5	6	Man- sard.	Flat.	Pitch.	Hip.	Other Styles.	No. of Buildings.
1												
2	1	2					1		2			3
3												
4	1	1						1	1			2
5		1	1			٠.	• •	2		• •		. 2
6	2		3	. 9	1		• •	15	• •			15
7	1		1		٠.	1	1	2	• •			3
8	1		• •	• •		٠.	• •	1		• •	• •	1
9	1	1	1	• •	• •	• •		2	1		• •	3
10	1	• •	2	9	3	2	1	15	1		• •	17
11	6	30	60	12	1	• •	75	29	2	3	• •	109
12	3		1	7	11	• •	4	17	1		• •	22
13	• •	1	• •	1	• •	• •		1	1	• •	• •	2
14	8	2	2	1	• •	• •	8	4	• •	1	• •	13
15		1	• •	• •	• •	• •			1	• •	• •	1
16	• •	1	2	13	1	• •	6	9	2	• •	• •	17
17	1	1	1	12	• •	• •	1	14	• •	• •	• •	15
18	1	• •	1,	1	• •	• •		3			• •	3
19	4		2	1	-			6	1	• • •	• •	7
20	4	5	1	• •	• •	• •		9	• •		1	10
21	;		10	• •		• •		10		• •	• •	10
22	1		5		•	• •		1	5	• •	• •	6
23	1	39	1	• •	• •	• •	36	1 3	3	• •	•	5
24	2	1						1	2	• •	•	40 3
25			<u> </u>	<u> </u>	<u> </u>					-		3
Totals	41	88	94	66	17	3	134	146	24	4	1	309

PERMITS ISSUED FOR WOODEN AND FRAME BUILDINGS.

Blacksmith-shops					•			5
Blacksmith and car	pente	r shoi)		•			1
Boat-house .			•		•			1
Bonded warehouse			•			• •		1
Bottling-house								1
Bowling-alley.								1
Car-house .								1
Carriage-houses				•				$\overline{5}$
Carriage-house and	storac	re						1
Carpenter-shops	Storag							3
Carpet-cleaning fact	orv							1
Charitable institution		•	•					1
Churches .	, I.I.	•		•				4
Coal-sheds .	•	•	•	•		•		$\tilde{3}$
Coal-pockets .	•	•	•	•	•	•		1
Cow-barn .	•	•	•	•	•	•	•	1
Currying-shop	•	•	•	•	•	•	•	1
	•	•	•	-	•	•	•	204
Dwellings .	·	•	•	•	•	•	•	7
Dwellings and store		•	•	•	•	•	•	1
Dwelling and restar			•	•	•	•	•	1
Dwelling and carria	ge-no	use	•	•	•	•	•	, <u>1</u>
Dry-house .	•	•	•	•	•	•	•	1
Dye-house .	•	•	•	•	•	•	•	$\frac{1}{2}$
Elevators .	•	•	•	•	•	•	•	1
Engine-house.	•	•	•	•	•	•	•	_
Foundries .	•	•	• ,	•	•	•	•	2
Freight-houses	•	•	•	•	•	•	•	5
Gate-house .	•	•	•	•	•	•	•	C
Greenhouses .	•	•	•	•	•	•	•	6
Horse-sheds .	•	•	•	•	•	•	•	2
Horse-shed and sto	rage 1	or sie	as	•	•	•	•	1
Ice-cream saloon	•	•	•	•	•	•	•	1
Ice-houses .	•	•	•	•	•	•	•	3
Laundry .	•	•	•	•	•	•	•	1
Lumber-sheds.	•	•	•	•	•	•	•	3
Manufacturing	•	•	•	•	•	•	•	10
Mechanical .	•	•	•	•	•	•	•	21
Milk-shed .	•	•	•	•	•	•	•	1
Offices	•	•_	•	•	•	•	•	6
Office and storage				•	•	•	•	1
Oil supply and con	ductor	r's roc	m	•	•	•	•	1
Pavilions .	•	•	•	•	•	•	•	2
Pavilion and stage	(for t	heatri	cal pu	rpose	es)	•	•	2
Pickling castings		•		•	•	•	•	1

	REPORT	OF	Inspec	CTOR	of l	Buildi	INGS.		11
Poultry-ho	uses						•	•	5
Poultry-ho	use and	stor	age of	wood	d .		•		1
Primary sc			•	•		•	•		2
Pumping-st		•			•	•	•	•	1
Railway-sta	ations		•	•			•	•	2
Railroad su	ipply-ho	use	•	•	•	•	•		1
Reading-ro	oms, etc	3.	•	•	•		•		1
Restaurants	s .		•		•	•			2
Scale-house	е .		•						1
Sheep-hous	ses .	•			•		•	•	2
Stables .	•		•			•	•		63
Stables and	d carriag	e-ho	uses	•	•	•	•		3
Stables and	d wagon-	she	ds.		•			•	-3
Stable and	storage	of j	unk			•	•		1
Stable, was				age o	of lui	$_{ m mber}$		•	1
Storage .	•	•	•	•		•			59
Storage, ba	ath-house	e, a	nd rep	air-sl	hop		•	•	1
Storage and	d carpen	ter's	s-shop		•		•		1
Stores .		•				•	•		. 4
Stores and	paint-sh	.op	•		•	•			1
Store-house	e and wa	agor	-shed		•	•	•		1
Stone-cutte				•	•	•	•		1
Theatre .	•		•	•	•	•	•	•	1
Wagon-she	ds .		Φ,		•	•	•	•	11
Watch-hou		•	•	•	•	•		•	2
Wheelwrig	ht and p	aint	-shop	•		•		•	1
Work-shop				•	•	•	•		1
Yard-maste		e	•			•		•	1
T	otal		•	•	•				494

Exhibit "C" will give the statement in tabular form.

EXHIBIT C.

Showing the whole Number of Wood and Frame Buildings in each Ward for which Permits have been issued.

part ma moddig									WA	RDS										·stv
LOWFORE OF BUILDING.	1	6)	69	4	19	=	31	13	4-1	12 1	9	10	8 10	08	15	88	6) 6)	25	5.	
Dwellings	6	4	:	-	H	:	:	2	03	ت		-	1 .	8 14	37	1	26	22	16	204
Dwellings and stores	Т	:	:	:	-	:	:	-	-	•	•	·	•	<u>:</u>	<u>:</u>	- -			:	-
Manufactories	П	:	:	:	:	:	:	•	-	•	·	•	•	-				<u>:</u>		10
Mechanical	H	61	:	:	:	:	:	4	•		•	•	•	•	.	- 7	e0 	<u>භ</u>	4	21
Foundries	,- 4	:	:	:	:	:	:	•	•	•	•	•	•			<u>:</u>	•	•	<u>:</u>	, 21
Railway stations	:	Н	:	:	:	:	•	•	:	•	•	•	•	-		·	•	<u>:</u>	<u>:</u>	61
Freight-houses	:	4	:	:	:	•	:	-	:	•	•	•	•	•	•	•	•	•	:	5
Coal-sheds	:	-	:	:	:	•	:	-	-	<u>:</u>	•	•	•	•	•	•	•	<u>:</u>	:	es .
Lumber-sheds	:	:	:	-	• •	:	•	•	-	•	-	•	•	•	•	•	•	:	:	<u>භ</u>
Storage	1-	4	:	70	, =	•	П	r-	63	¢1		eء •	•		61	•		6	က	69
Stables	Н	73	:	:	· :	•	:	•	:	6.1	•	-		67		6 1	14	- 20	6	63
Carriage-houses	•	:	:	:	-	:	:	•	•	:	•	•	· ·	•	•	•		C.1	-	2
Wagon-sheds	:	Н	:	:	Н	•	:	:	:	-	•	•	•	•	61	1 2	-	:	61	=======================================
Churches		:	:	:	:	:	:	•	•	• 0	•	•	•		•	•	<u> </u>	C1	:	4
Miscellaneous	61	73	c 1	က	4	:	61	1-	oo	61	•	·	•	61	<u></u>	5	19	=	=======================================	95
Totals	23	27	63	91	6	:	8	56	34	13.	61	5	14	S	52	19	8	86	47	404

EXHIBIT D.

Showing the Styles of Roofs and the Number of Stories of the foregoing Buildings.

WARD.	N	0. OF 8	Storie	es.		Sty	LE OF	Roof.		No. of Buildings.
	1	2	3	4	Man.	Flat.	Pitch.	Hip.	Other Styles.	No. of
1	16	6	1		3	5	15			23
2	20	5	2		1	10	16			27
3	1	1				2				- 2
4	7	2	1			7	3			10
5	2	5	1	1		8	1			9
12	3					1	2			3
13	14	6	6			12	12	1	1	26
14	21	11	2		10	9	15			34
15	10	3			4	3	5	1		13
16			2			2				2
17	1	3	1			5	'			5
19	11	2	1		2	2	10			14
20	18	11	1		3	9	11	1		30
21	15	36	1		8	6	35	2	1	52
22	9	5	5			11	6	2		19
23	46	30	4		4	17	57	2		80
24	48	49	1		8	5	75	9	1	98
25	27	18	2	• • •	7	4	35	1		47
Totals	269	193	31	1	50	118	304	19	3	494

SPECIAL PERMITS.

The provisions of Section 1 of Chapter 260 of the Acts of 1872 prohibit the erection of independent wooden buildings within the boundaries of the district known as the building limits of the City of Boston, with certain exceptions as to wharves.

Wooden additions to existing buildings in this district can, however, be erected, with a limitation as to height and area to be covered.

These limits are established by the City Council under. statute authority, and by an ordinance approved July 8, 1871, were defined as follows:—

Beginning at the intersection of the centre line of Dover and Albany streets, thence running eastwardly through the centre of Dover street to the Harbor Commissioners' line; thence around the northerly portion of the "City Proper," by the said Harbor Commissioners' line to a point on Charles river, opposite the centre line of Parker street or cross dam; thence through the centre of Parker street or cross dam to a point opposite the centre of Ruggles street; thence through the centre of Ruggles street to the centre of Washington street; thence through the centre of Washington street to a point opposite the centre of Palmer street; thence through the centre of Palmer and Eustis streets to the centre of Hampden street; and thence through the centre of Hampden and Albany streets to the point of beginning.

The said district being shown by a shaded red line on a plan made by the City Surveyor, dated June 26, 1871, and deposited in the office of the City Surveyor.

The above ordinance establishing the boundaries of the building limits, was amended April 6, 1878, by striking out after the words "to a point on Charles river opposite the centre line of," the words "Parker street or cross dam," and inserting in their place the words "West Chester park as extended; thence through the centre of West Chester park to its intersection with Boylston-street extension; thence through the centre of Boylston-street extension to the centre of Parker street"; and after the words "dated June 26th, 1871," insert the words, "as amended as shown by a shaded blue line on said plan."

Special Permits Issued.

Coal-shed	•							•	1
Storage .									6
Lumber-sheds	•	•	•	•	•	•		•	2
Total	•	•		•	•	•	•		9

34

They were	erected i	n the	following	wards:—
-----------	-----------	-------	-----------	---------

Ward	6								•	1
66									•	
66	16		•		• = ,	•	•	•	•	2
66	7	•	•	•	•		•	•	•	1
									-	
	Total	•	•		•	•	•	•	•	9

STEAM-ENGINES, BOILERS, OVENS, AND FURNACES.

Under the provisions of Section 18 of Chapter 371 of the Acts of 1872, this department has supervision of the setting of all steam-boilers and heating apparatus, and the building of ovens, furnaces, etc.

The prosecution of this work does not, however, involve an inspection of the boilers, with a view to ascertain their condition and safety, and, though frequently called to act for that purpose, it has no legal authority.

STEAM-ENGINES, BOILERS, FURNACES, ETC.

The number of steam-boilers, engines, furnaces, etc., for which permits have been issued during the year, is as follows:—

STEAM-ENGINES AND BOILERS, ETC.

Steam-engines		,•			•	•	•	13
Steam-boilers.	•		•	•	• •		•	114
Steam-boilers and	eng	gines		•	•	•		72
Sectional boiler	•	•						1
Hot-water boilers		•						3
Total								203

Ovens, Ranges, etc.

Bakers' ovens	, ,		•					6
Baking "			•				•	2
Brick "		•	•	•	•	•	•	5
Japanning ovens			. •		•	•	•	3
Oven .			•	•		•	•	1
Brick range				•	•		•	1
Restaurant range			•	•	•	•	•	6
"	and	broilers	•	•		•	•	6
66 66	66	boilers	•	•	•	•	•	2
Ranges .		•	•	•	•	•	•	2

Total

KILNS, KETTLES, ETC.

Brick-kiln	•	•	•	•	•	•	•	1
Kilns	•	•			•		•	12
Kettles for melting ty	γpe, ε	etc.		•				2
Kettles for manufactu	iring	of cer	$_{ m nent}$					2
" " mixing su	gar		•				•	$\frac{2}{1}$
	6							1
Kettles								3
Sugar-melting pan	•	•						1
Coffee-roasters .	•	•	•	•	•	•	·	$\overline{12}$
	•	•	•	•	•	•	•	4
Cupolas	•	•	•	•	•	•	•	-
m. t. 1								40
Total .	•	•	•	•	•	•		40
	_							
	Fur	NACES	s, etc	.				
Brass furnaces .								27
Blacksmiths' furnaces	•	•	•	•	•	•	Ů	2
Brick furnaces .	•	•	•	•	•	•	•	$\frac{7}{7}$
	•	•	•	•	•	•	•	6
11011	•	•	•	•	•	•	•	$\frac{0}{2}$
Tailors "·	•	•	•	•	•	•	•	$\frac{2}{2}$
Furnaces .	•	•	•	•	•	•	•	
Blacksmiths' forges	•	•	•	•	•	•	•	33
Brick forge .	•	•	•	•	•	•	•	1
Wheelwright's forge	•	•	•	•	•	•	•	1
Forge	•	•	•	•	•	•	•	1
9								
Total .	•	•					•	82
TH.	Геатт	ng A	PPARA	TUS.				
								. = 0
Furnaces, and other	heati	ng app	paratu	ls.	•	•	•	470
ALTERATIO	ns, A	DDIT	ONS,	AND .	REPA	IRS.		
							1	
The number of l	ouman	ngs 1	or wi	nen p	ermu	s nav	/e	oeen
issued to have alter	ation	s ma	de uj	pon t	nem,	and	to 1	nave
additions built to the	em, is	2,29	4, clas	ssified	as to	Hows	:-	-
D ! 1.		^						017
Brick	•	•	•	•	•	•	1	917
Wood	•	•	•	•	•	•	1,	,365
Stone	•	•	•	•	•	•		11
Iron	•	•	•		•	•		1
Total			•	•	•	•	2	,294

The estimated cost of alterations, repairs, and additions that were completed during the year is, \$1,327,230.

Projecting Mortars and Lanterns.

The number of examinations that have been made upon petitions for leave to maintain mortars and lanterns to project over the sidewalk is as follows:

ject over the sidewalk is as follows:—	-			•
Projecting mortars	•	•	•	4 16 1
Total	•	•	•	21
PERMITS FOR THE OCCUPATIO	N OF	STREE	TS.	
The number of permits that have streets for building purposes is as follows:			to o	occupy
Permits in force January 1, 1880 . Permits issued during the year .	:	•	•	505 1,284
Total	•	•	•	1,789
Permits cancelled during the year. Permits revoked Permits in force December 31, 1880	•	•	•	585 14 1,190
Total		•		1,789
FIRE AND ACCIDENT I	RECOR	D.		
The number of buildings that have be damaged by fire or accident is .	een r	eported •	l as	352
The probable causes were as follows:				
Benzine in contact with lighted paper				1
Benzine, bottle of, falling on stove.	•	•	•	1
Boiler overheated	•	•	•	$\frac{1}{2}$
Boiling blacking, overflow on range.	•	•	•	1
Burning brand falling on cotton batting	g.		•	1
Cause not ascertained	•	•	•	37
Children setting fire to clothing . Children setting fire to mattress on ro	of ·	•	•	$\frac{2}{1}$
Children setting fire to rubbish .	•	•	•	1
Children playing with fire	•	•		1
Child setting fire to grass and paper in	n wate	er-spou	t.	1

Clothing in contact with stove-pipe	. 1
Clothing in contact with stove	. 1
Chimney-flue defective	. 6
Chimney-flue, woodwork near	. 3
Chimney-flue	. 1
Caught from adjoining building	. 64
Caught from adjoining lumber	. 3
Chemicals, spontaneous combustion of	. 1
Children's clothing, spontaneous combustion of.	. 1
Chimney, sparks from, falling on roof	. 4
Cotton waste, spontaneous combustion of	. 1
Cotton, spontaneous combustion of	. 1
Furnace, improper setting of	. 1
Furnace overheated	. 1
Funnel-hole, improperly protected	. 1
Flame of lamp in contact with wood-work .	. 1
Furnace smoke-pipe falling on lumber	. 1
Fireplace defective	. 2
Gale of wind	. 2
Gas, explosion of	. 1
Gas-jet in contact with window-curtain	. 1
Gas-jet in contact with lace curtain	. 2
Gas-jet in contact with drapery	. 1
Gasomine coppersmith's heater, explosion of .	. 1
Grate, improper setting of	. 5
Hot ashes placed in barrel	. 2
Hot-air pipes, wood-work near	. 1
Hot ashes falling on floor	. 2
Hot coal falling on floor	. 2
Hot crucible set on hearth	. 1
Heat from boiler setting fire to wood-work .	. 1
Hot pot from brass furnace set in a pan of charcoal	. 1
Incendiary	. 50
Kerosene oil lamp, breaking of	. 3
Kerosene oil lamp, explosion of	. 9
Kerosene oil lamp, upsetting of	. 1
Kerosene oil lamp, dropping of	$\begin{array}{ccc} \cdot & 2 \\ \cdot & 2 \end{array}$
Kerosene oil lamp, bursting of	
Kerosene oil lamp, falling on stove	. 1
Kerosene oil lamp, heat of setting wood-work on fir	e, 1
Kerosene oil stove, explosion of	. 2
Kerosene oil stove, upsetting of	. 1
Kerosene oil, explosion of	. 1
Lighted match thrown into wooden spittoon .	. 2
Lighted match thrown into hay	. 1
Lighted match in contact with waste rags.	. 1
Lighted match in contact with excelsion	. 1

REPORT OF INSPECTOR OF BUILDINGS.	19
Lighted match thrown in rubbish	3
Lighted match dropped into clothing	$\overset{o}{1}$
Lighted match thrown on floor, in contact with parti-	
tion	1
Lighted match falling on merchandise	$\bar{1}$
Lighted cigar placed in clothing	1
Lighted cigar thrown on oily floor	1
Lighted lamp in contact with window-curtain	1
Lighted lamp in contact with floor	1
Lighted lamp in contact with clothing	1
Lighted candle in contact with wood-work	1
Lighted tobacco-pipe placed in coat-pocket	2
Lighted tobacco-pipe setting fire to bedclothing .	1
Lighted fire-crackers falling on bureau	1
Lumber in contact with stove-pipe	1
Matches, children playing with	10
Matches, rats among	13
Matches thrown behind bureau	1
Matches, spontaneous combustion of	2
Naphtha igniting from spark from a man's boot-heel	
coming in contact with nail in floor	1
No thimble	1
No thimble-cover	1
Oak boards placed over register-box taking fire from	1
heat of furnace	1
Overheated flat-iron heater	1
Oily waste, spontaneous combustion of	2
Oily rags, spontaneous combustion of Oily saw-dust, spontaneous combustion of	12 1
Pitch, boiling over of a kettle of	1
Stove-pipe, overheated	1
Stoves, overheated	6
Stove-pipe in contact with wood-work	3
Stove, encased in wooden box, setting fire to same.	1
Soot in chimney taking fire	3
Steam-boiler improperly set	1
Smoke-pipe not properly guarded	1
Soldering furnace, heat of, setting fire to charcoal .	1
Soldering furnaces set on roof	2
Soft coal, spontaneous combustion of	1
Sparks from kettle falling on floor	1
Sparks from locomotive falling on roof	1
Sparks from locomotive setting fire to shavings .	1
Sparks from steam-boiler falling on roof	1
Sparks falling on roof	1
Sparks from fire-box	1
Sparks from hoisting-machine	1

Sparks from hemp-picking machine		1
Sparks from tobacco-pipe setting fire to hay .		1
Sparks from furnace setting fire to inside of roof		2
Sparks from furnace setting fire to wood-work.		1
Sparks from blacksmith's furnace falling on roof		1
Sparks from sky-rocket falling on roof		2
Telegraph wires, in contact with combustible materi	al	1
Vapor of flavoring extracts, in contact with gas-jet		1
Wood-work in contact with range		1
Wooden box placed too near stove		1
Wood in oven igniting from heat		1
Wood-work, smoke-pipe near		1
Yachting materials, spontaneous combustion of.		1
· ·		
·		352

HOIST-WAYS AND ELEVATORS.

The attention of this department has, to a considerable extent, necessarily been directed to the inspection of hoistways and elevators. The large increase in their number since the fire of 1872, the increased height of buildings now being erected, the introduction of elevators into classes of buildings heretofore not generally provided with them, such as hotels, family hotels, operative and public buildings, and the especial danger from accident, and the extension of fire in their use, indicate that more than ordinary attention should be given them.

The requirements are few and simple: a railing, trapdoors, and trap-doors closed, except when in actual use by the occupants of the building. It was supposed at the time of the passage of the act governing hoist-ways and elevators that its provisions would cover all cases that would arise; but that expectation has not been wholly realized, non-compliance often arising from ignorance, negligence, or design,

according to the character of the individual.

"There are few provisions of the building law more important than this one. When it is considered that, for protective purposes in case of fire, the floors of our buildings are so constructed as to make only an apparent separation of the stories, and that with a large flue extending from the basement of a building to the roof, and the building stored with large amounts of combustible material, it becomes especially dangerous in case of a fire occurring in it, which, instead of being temporarily confined to the story in which it originated, spreads at once throughout the building, imperilling, to a greater or less extent, all surrounding buildings;

and when the number of firemen whose lives have been lost, or who have been seriously injured by entering these or adjoining buildings having unprotected hoist-ways, is also considered, the simple requirements of rails and of closed trap-doors during non-business hours are not to be considered onerous or burdensome, and any neglect to make them conform to legal requirements no excuse for an exemption from the prescribed penalty."

In view, then, of their rapid and general introduction into various classes of buildings, and the unsafe consequences thereto attendant from those not properly protected, appropriate additional legislation in the matter of their regulation

seems imperative.

		ber of	exan	ninatio	ons th	nat ha	ve b	een	
made	is .	•	•	•	•	•	•	•	157
lassifie	d as	follow	s:—						
st-way	and	eleva	itor o	pening	gs un	provid	ded v	vith	
				- \	-	_			57
st-way	and	elevat	or ope	enings	unpr	ovide	d wit	h a	
				_				•	93
o-doors	s left	open	when i	not in	actua	l use	•	•	7
Total									$\frac{-}{157}$
	made lassifie st-way ap-doo st-way iling o-doors	made is . lassified as st-way and ap-doors . st-way and iling . o-doors left	made is lassified as follow st-way and elevated ap-doors st-way and elevated iling	made is	st-way and elevator openings unprovided with ap-doors				

VIOLATIONS OF THE BUILDING LAW PLACED ON FILE FOR PROSECUTION.

Building No. 31 Barrett street. — The complaint was for leaving trap-doors to hoist-way open at 9.30, P.M., and when not in actual use. The case was settled upon payment of fine.

Building No. 41 India wharf. — The complaint was for leaving trap-doors open at 9.30, P.M., and when not in actual use. The case was settled upon payment of the usual fine.

Building Nos. 9 and 11 John street. — The complaint was for leaving trap-doors open, when not in actual use — 8.30,

P.M. Case settled on payment of fine.

Building No. 72 High street.—The complaint was for trap-doors having been found open at 10.30, P.M., when not in actual use. The case was settled on payment of the usual fine.

Building No. 200 State street. — Complaint was for leav-

ing trap-doors open on second floor at 9.30, P.M., when not

in actual use. Case settled by fine.

Building No. 100 Pearl street.—The complaint was for leaving trap-doors open at 9.30, P.M., when not in actual use. Case settled by fine.

Building No. 42 Summer street. — The complaint was for leaving trap-doors open at 8.30, P.M., and when not in actual use. The case was settled on payment of the usual fine.

MEANS OF EGRESS AND FIRE-ESCAPE.

Under the provisions of the building-law, fire-escapes and sufficient means of egress are required in the following classes of buildings:

Buildings in which operatives are employed in any of the

stories above the second story.

Buildings occupied by two or more families on any floor above the second floor from the level of the street.

Hotels, boarding and lodging houses, factories, mill or

manufactory.

Buildings occupied in part, or in whole, for any public

purpose.

All new buildings belonging to any of the above classes are especially examined in regard to their construction, with reference to fulfilling legal requirements in furnishing suitable and ample means of egress in case of fire or accident.

The number, location, arrangement, and width of the stairways; the proposed number of occupants or operatives; the proposed use of the building; its proximity to other buildings, and the materials of which it is built, — all enter into consideration.

Old buildings altered to, or by occupancy brought to, be comprised in any of the above classes of buildings requiring fire-escapes, are also duly inspected, and the necessary means of escape are required, the same as if it was a new building.

Requisitions for fire-escapes have been made upon the

following classes of buildings: -

Tenement-houses	68
Buildings in which operatives are employed .	28
Dwellings	5
Hotels	3
Boarding-houses	3
Public halls	• 2
Church	1
Charitable institution	1
Dwelling and lodging-house	1

REPORT O	f Inspec	CTOR	OF .	Buildi	NGS.		23
Lodging-house .	•	•		•			. 1
Public building .	•	•	•	•		•	1
Offices	•	•	•	•	•	•	1.
Total	•	•	•	•	•	•	115
Requisitions on th	ese buil	dings	ha	ve bee	n ma	de as	fol-
Balcony and step-lade	der fire-e	escap	es			•	64
Iron balconies .	•	•	•	•	•	•	28
Additional stairways	•	•	•	•	•	•	7
Bridges	•	•	•	. •	•	•	9
Step-ladders to scuttl		ofs			•	•	5
Outside step-ladders	to roof	•	•				2
Window openings to				•	•	•	5
Stairways extended to						•	4
Doors made to open o							6
Doors required to be	left oper	n					3
Obstructions to be re			stair	wavs			3
Doorway in partition					Ţ		ĭ
Remove door and par	tition at	hoad	l of	etairwe	•	•	1
Balcony	ororon au	neac	1 01	Stail W	· y	•	1
	nom atom	· ·lada		•	•	•	1
Remove pulley-belt f			ier	•	•	•	1
Window made to ope		ra	•	•	•	•	T
Secure steps leading		•	•	•	• "	•	1
Remove floor over sta	airway	•	•	•	•	•	1
Extend stairway .	•	•	•	•_		•	1
Provide an axe for us		se of	fire	, to be	kept	at	1
head of stairway	•	•	'•	•	•	•	1
Total		•	•	• •	•	•	145
THE I	NSPECTIO	N OF	Bu	ILDING	s.		
(D)	1.454	1 4 1		1			1 7
The number of vice reported on is 507.							
This number does							
were removed on ve	erbal not	tificat	ion,	but t	\mathbf{hose}	only	that
from any cause it bec	ame nece	essary	y to	take of	ficial	action	a.
The following stat							
lations:—							
TT: 1 4' 0 47							4=0
Violations of the stat		•	•	•	•	•	476
" " ordi	inances	•	•	•	•	•	91
Total .							507

Bay-windows projecting or	ver lin	e of s	street		•	. 3
Cellar bottom below grade)	•		•		. 2
Cellars not concreted	•	•	•			. 2
Cornice not covered with	iron	•	•			. 1
Chimney not plastered		•				. 1
Defective foundation						. 1
Exceeding range		•				. 4
External combustible cove	ring	•				. 1
Fire-escape, none .		•				. 115
Flues not plastered .		•	•	•	•	. 2
Flues, wood-work against		•		•	•	. 10
Framing improper .		•	•		•	. 7
Grate improperly set		•			•	. 1
Headers not hung in stirre	ıp - iror	ns	•		•	. 1
Hot-air pipes, wood-work	agains	st	•		•	. 6
Improper construction			•		•	. 20
Lintels, wooden .		•			•	. 17
Material, poor		•				. 15
Metallic leaders not conne	cted v	vith s	ewer	or dra	ain	. 2
Nails driven into chimney		•			•	. 1
No foundation .		•		•		. 1
"girts			•			. 1
" iron shutters .				•		. 25
" metal-covered doors			•	•	•	. 7
% permit		•	. "	•		. 69
"rails			•		•	. 93
" rebated iron frames		•			•	. 6
"traps		•			•	. 57
Piles cut above grade five		•		•		. 1
" too far apart .		•		•	•	. 1
Porch projecting over line	of str	eet		•		. 1
Registers improperly set		•				. 2
Scuttles and ladders, none	•	•		•		. 4
Timbers, small-sized		•				. 3
" not anchored		•		•		. 10
Trap-doors left open	•			•		4
Violation of conditions of	street	perm	nit			. 2
Walls not thick enough			•	•	•	. 3
" " through roof		•		•		
" " anchored.			•	•	•	. 1
Wooden building in limits	3	•	•	•	•	. 2
9						
Total		•		•		. 507

The department has record of the following accidents that occurred during the year:—

Jan. 5, Patrick Anderson, an employé of E. B. Badger & Son, while at work securing iron-work on the roof of building No. 182 Commonwealth avenue, the roof-staging gave way, precipitating him to the ground, sustained serious,

though not fatal, injuries.

Francis P. Mahan, member of Hook and Ladder Co. No. 8, while in the performance of his duty as fireman fell through hoist-way in second floor of building situated No. 31 Barrett street, the adjoining building being on fire at the time. Said Mahan fortunately escaped injury. The hoist-way

was not protected by trap-doors and rails.

March 22, one of the passenger elevator cars in Jordan, Marsh, & Co.'s dry goods store, Nos. 450–456 Washington street, run down unawares about twenty-two feet, from a point about nine feet above the second floor; in its descent brought up against rubber bumpers at bottom of shaft. There were fourteen persons in the elevator-car at the time of

accident, who escaped without injury.

Samuel Bateman, an employé of the Boston Excelsior Co., No. 25 Merrimac street, while in the discharge of his duty, together with other workmen, hoisting bales of excelsior from the first to the sixth floor, through hoist-way. Said Bateman was on the lower or street floor, when, by some unknown cause, the iron weight used on check, or clamp of drum, fell from its fastenings through the several openings in floors, striking him on the head, killing him instantly.

The hoist-way openings were not protected according to

law.

Mr. Frederick McIntosh, 39 years old, an employé of the Howard Watch & Clock Co., on Eustis street, corner Prescott street, met his death by falling through elevator-way from the third to the basement floor, probably the result of carelessness. The elevator openings on the third and fourth floors,

at time of examination, were not protected by rails.

Mr. George Zeigler, 50 years old, an employé of Lang & King, brewers, Longwood avenue, at which place said Zeigler was at work, loading goods from outside elevator to wagon. From some cause or other, the elevator commenced to descend, while he had one foot on same, causing him to fall over on top of a half barrel of beer, that was on the elevator platform. He was injured internally; not fatal.

Timothy Sweeney, 30 years old, while in building No. 470 Harrison avenue, attempted to ascend from the first to second story, by hoist rope in hoist-way, and when near the second floor he fell to cellar, a distance of about seventeen feet, fracturing two of his ribs, from which he will recover.

The hoist-way was protected according to law.

Charles Demyer and Hugh McCrystal, each aged 18, employés of Roxbury Carpet Co., on Hampshire street, corner Clay street, met with an accident in elevator-way of said building, by the breaking of cogs or gearing at sides. Said Demyer had one leg broken, and McCrystal slightly bruised. The accident was the result of carelessness, and could have been avoided.

Elevator is enclosed in brick, and door-ways protected by

rails.

Mr. H. S. Keyes, an employé of A. B. Shaw, in building Nos. 9, 11, 13 Chardon street, while on elevator ascending; when opposite fourth floor the wire-rope parted, allowing the elevator and occupant to fall through several floors to the basement, injuring said Keyes so that he had to be conveyed to the Massachusetts General Hospital; as a result serious, though not fatal, injuries.

Elevator enclosed in metal-lined shafts, door-ways pro-

tected by rails.

Miss Nellie Conroy met with a fatal accident while employed in the store of Houghton & Dutton, No. 55 Tremont street. The duty of Miss Conroy, together with other girls, was to deliver and receive bundles from dumb-waiter. These dumb-waiters were worked on the principle of a balance, one waiter ascending while the other descends. Miss Conroy was in the act of looking into slide to ascertain, as supposed, the position of waiter; at that moment the dumb-waiter in its descent struck her on the head, from the effects of which she died.

Austin L. Crain, 19 years old, residing in Arlington, an employé of Emery Bemis, 33 Central wharf, while on the third floor of said building, examining and delivering goods at hoist-way, stepped backward, and fell through said hoist-way to the first or street floor. He was seriously, though not fatally, injured, and was taken to the Massachusetts General Hospital.

Edward Johnson, a young man, and stranger in the city, while in the act of getting on elevator (in building Nos. 27–29 Winter street) while it was in motion, slipped and fell, and was crushed between elevator and floor. He survived his injuries but one hour. The elevator was in good repair.

Geo. K. Withington, baker, was injured by the explosion of a bread-kneader in building No. 224 Ruggles street. The result may prove fatal, as Mr. W. has not regained con-

sciousness.

Mr. David J. Buckley, an employé of the Hancock Inspirator Manufacturing Co., Nos. 28 to 32 Beach street, met with a painful accident, which may prove fatal. Said

Buckley, while on the fourth floor, fell through elevator-way to cellar, from some unexplained cause.

This elevator is enclosed in each story; the doors leading

to elevator were not protected by rails.

Unsafe Buildings.

The total number of unsafe buildings, unsafe walls, etc., on which the department has taken action, is one hundred and fifty-three; classified as follows:—

Unsafe	buildings .						. 36
66	bricks on roof		•				. 1
66	clothes-shed .		•	. 20		•	. 14
66	coping	•	•	. 11	.00		. 1
66	cornices .			•			. 3
66	corridor .		•	. 11	•	•	. 1
66	corbel		•			•	. 1
66	conductors		, •		•	•	. 4
66	coving .	•	٠.		•	•	. 1
66	ells		•	• ,		•	. 2
66	fence		•	•	•	•	. 1
66	floors	•	•	•		•	. 4
66	foundations .	•	. "	•		•	. 6
66	gutters .	•	•	•	•	•	. 2
66	hoist-way and eleva	ator :	ropes	•	•	•	. 2
66	observation stand			• 4 .		•	. 1
66	piers	• •	•	•		• -	. 2
. 66	plank on roof	•			•		. 1
66	railing	•	•	•	•	•	1
66	roofs		•	•	•		. 2
66	signboard .		•			•	. 1
66	slate on roof	•	•	•	•		. 2
66	spire	•	•	:	•		. 1
6.6	stair-ways .	•		• •	•	•	. 2
66	stair trimmers	•	• (• =	•	. 2
66	stagings .	•	•	•	•	•	. 2
66	steps	•	•	•	• 0 .	•	. 1
66	stud partition	•	•	•	• ;	•	. 1
66	towers	•	•	•	• ,	•	. 4
66	walls	•	•	•	•	•	. 51
	Total	•	•	. "	•	•	. 153
TTmasfe	hasting apparetus					0.0	2
Unsare	heating apparatus	•	•	•	•	. 88	
66	dangerous chimney defective flues	Ø	•	•	•	. 243	
•	defective flues	•	•	•	•	. 2	- 362
							- 302
	Grand total .						$\frac{-}{515}$
	Grand Cotal .	•	•	•	•	•	010

The following Table shows the Number of Unsafe Buildings reported on as rebuilt, secured, etc.

		Rebuilt.	Secured.	Taken down.	Not Completed.	Total.
Unsafe	buildings		6	16	14	36
66	bricks on roof				1,	1
44	clothes-sheds		2		12	14
"	coping		1			1
"	cornices		2		1	3
66	corridor		1			1
44	corbel		1			1
44	conductors	1	3			4
44	coving		1			1
44	ells		1		1	2
44	fences				1	1
66	floors		4			4
"	foundations	1	8		2	6
46	hoist-way elevator ropes		1			1
66	observation stand				1	1
44	passenger elevator ropes				1	1
66	gutters				2.	2
66	piers				2	2
66	plank on roof			1		1
16	railing		1			1
66	roofs		1		1	2
66	signboard				1	1
66	slate on roof		1		1	2
46	spire				1	1
44	stair-ways		2			2
66	stair trimmers		2			2
66	stagings			1	1	2
"	steps				1	1
66	stud partition		1			1
66	towers		4			4
66	walls	7	15	3	26	51
**	heating apparatus		32	1	74	107
Defect	tive flues	3	12	1 1,	. 8	25
Dange	erous chimneys	116	22		111	249
T	otal	128	100	23	264	515

Examinations.

The daily outside work of the department consists in the inspection of buildings reported to be in an unsafe condition from any cause whatever; deficiency in the means of egress or fire-escapes upon buildings required by law to be provided with them; the supervision of the erection of new buildings and the enlargement of old ones, with reference to provision for public safety and conformity to the requirements of the building law. Examinations were made of 200 observation stands on the occasion of the 250th Anniversary of the Settlement of Boston.

COMPLETED BUILDINGS.

The total number of brick and stone buildings completed during the year is one hundred and fifty-nine, at an estimated cost of one million four hundred ninety thousand one hundred dollars.

The total number of wood and frame buildings completed during the year is two hundred and seventy-three, at an estimated cost of four hundred seventy-four thousand seven hundred fifty-two dollars.

The estimated cost of completed additions, alterations, and repairs is one million three hundred twenty-seven thousand two hundred and thirty dollars.

SUMMARY OF THE WORK OF THE DEPARTMENT FROM ITS ORGANIZATION.

The department commenced operations October 2, 1871, and in order to indicate, in some degree, the amount of work that it has accomplished, I submit a statement of its operations from that period to the present time.

The following tables show a comparative statement of the workings of the department from its organization:—

Showing the Number of Permits that have been issued for New Buildings, for Alterations, Steam Engines, etc.; the Number of Unsafe Buildings, Unsafe Heating Apparatus, etc., reported; the Number of Buildings that have been examined for Fire-Escapes, and the Number of Requisitions, etc., that have been issued, 1871-1880.

Halls examined for Exhibi-						56	4			1	31
Projecting Signs exam- ined.						15	21	27	17	21	101
No. of Street Permits issued.							263	1,100	1,311	1,284	3,958
Vo. of Build- ings exam- ined for Fire- Escapes.		٠	540	103	1.1	181	2,869	1,173	143	551	5,631
Mothees on Heating Ap- paratus paretus .			97	87	91	257	481	346	440	470	2,269
Permits issued to set Steam Boilers and Engines. Permits issued to set Furnate issued to set Furnate issued pares, Ovens, etc.			1.1	100	70	124	181	215	309	359	1,429
Permits issued. Alterations.	205	841	1,303	2,052	1,836	1,936	2,343	2,191	2,567	2,294	17,508
Special Permits is a series.		12	30	23	11	17	13	83	44	6	191
Permite issued. Wood.	272	1,051	806	1,278	400	532	532	473	575	494	6,819
Permits issued. Brick.	245	974	949	520	348	200	265	181	203	309	3,897
	1871.	1872	1873	1874	1875.	1876	1877	1878	1879	1880	Total

	1871	1872	1873	1874	1875	1876	1877	1878		1880	Total
No. of Build- ings Damaged by Fire exam- ined.	n	216	314	351	308	291	349	323	910	352	3,085
No. of Uneafe Buildings, Walls, etc.	31	19	139	149	. 66	77	220	230	183	153	1,342
No. of Danger- ous Chimneys reported.	78	46	522	417	386	374	388	505	1,042	249	4,007
Unsafe Heating Apparatus, etc., reported.	10	80	16	4	∞	32	126	96	34	88	422
No. of Defective Fines re- ported.		∞	7	13	10	1-	139	42	28	25	279
No. of Hoist- ways and Elevators examined,		:	15	21	162	223	145	324	983	96	1,969
No. of Requi- sitions for Fire Escapes is- sued.		:	269	36	11	62	287	275	125	115	1,186
No. of Unsafe Boilers, Fur- naces, etc., reported.		က	:	:	•	43	:	10	83	21	100
Yo. of Viola- tions re- corded.	132	387	1,101	168	346	452	883	1,074	1,675	507	7,398
Cases referred to City Solicitor.	C1	:	17	2	œ	8	o.	∞	o,	6	26
No. of Examinations made.	:	:	:	:	23,862	23,526	22,316	19,470	21,075	17,051	127,300
No. of Notices	:	:	:	:	:	\$ 852	686	1,415	1,857	861	5,974

Showing the Number of New Buildings, etc., completed under the Supervision of the Department since its Organization, together with the Estimated Cost.

															_	
NEW BUILDINGS. ALTERATIONS. BUILDINGS.	ALTERATIONS.			Unsafe Buildings.	NSAFE ILDINGS.		DA	DANGEROUS CHIMNEYS.	STEA! OVI	STEAM ENGINES, OVENS, AND FURNAGES.	АРЕ	HEATING APPARATUS.	HOI AND E	HOIST-WAYS AND ELEVATORS.	Ľ	TOTAL.
No. Estimated No. Estimated No. Estimated Cost.	No. Estimated No.	Estimated No.	No.		Estimated Cost.	1	No.	Estimated Cost.	No.	Estimated Cost.	No.	Estimated Cost.	No.	Estimated Cost.	No.	No. * Estimated Cost.
5,711 \$55,536,673 6,362 \$4,454,018 472 \$50,200	\$55,536,673 6,362 \$4,454,018 472	\$4,454,018	\$4,454,018	· · · · · · · · · · · · · · · · · · ·	\$50,200		1,407	\$19,884	257	\$36,500	240	\$12,500	138	\$8,600	14,587	\$60,118,375
879 6,727,130 1,786 1,335,446 60 15,780	1,785 1,335,446 60	1,335,446 60	09		15,780		425	6,948	235	32,270	200	9,220	89	3,518	3,652	8,130,312
697 5,332,365 2,165 1,114,290 168 18,816	2,165 1,114,290 168	1,114,290 168	168		18,816		331	5,019	266	137,115	505	68,736	20	3,750	4,205	6,680,091
631 3,447,655 1,958 852,333 230 37,684	1,958 852,333 230	852,333 230	230		37,684		202	006,9	215	134,337	346	56,712	52	2,647	3,937	4,538,268
2,397 1,606,768 183 20,151	2,397 1,606,768 183	1,606,768 183	183		20,151		1,042	13,989	309	97,099	440	66,357	177	4,187	4,548	1,808,551
432 1,964,852 2,198 1,327,230 108 10,997	2,198 1,327,230 108	1,327,230 108	108		10,997		288	4,020	310	202,188	472.	85,674	45	290	3,853	3,595,251
8,350 \$73,008,675 16,865 \$10,690,085 1,221 \$153,628	\$73,008,675 16,865 \$10,690,085 1,221	\$10,690,085	\$10,690,085		\$153,628	1	3,998	\$56,760	1,692	\$639,509	2,203	\$299,199	530	\$22,992	34,782	\$84,870,848

Showing the Number of Buildings damaged by Fire, together with an estimated Amount of Damage since its Organization.

	No. Buildings.	Amount Damage.
871	71	\$61,105
872	216	13,510,569
873	314	812,195
874	351	590,720
875	308	223,906
876	291	176,654
877	349	113,727
.878	323	229,640
879	510	354,311
.880	352	157,907

Notices Issued.

Notices relating to con	struct	tion;	viola	tions	of \cdot tl	1e	
building law .	•	•-	•	•	•	•	507
Unsafe boilers, furnaces,	etc.	•	•	•	•	•	88
Dangerous chimneys and	lflues	•	•	•	•	•	274
Fire-escape requisitions		•	•	•		•	115
Unsafe building notices			•		•		36
Stables	•	• (•	•	•	•	99
						_	
Total	•	•	•	•	•	. 1,	,119











